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8

Thr Phe Pro Tyr Lys Cys Leu Asn Ser Leu Gln Val Leu Asp Tyr Ser
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Leu Asn His Ile Met Thr Ser Lys Lys Gln Glu Leu Gln His Phe Pro
        515   520   525

Ser Ser Leu Ala Phe Leu Asn Leu Thr Gln Asn Asp Phe Ala Cys Thr
    530   535   540

Cys Glu His Gln Ser Phe Leu Gln Trp Ile Lys Asp Gln Arg Gln Leu
545   550   555   560

Leu Val Glu Val Glu Arg Met Glu Cys Ala Thr Pro Ser Asp Lys Gln
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Gly Met Pro Val Leu Ser Leu Asn Ile Thr Cys Gln Met Asn Lys Thr
                580   585   590

Ile Ile Gly Val Ser Val Leu Ser Val Leu Val Val Ser Val Val Ala
            595   600   605

Val Leu Val Tyr Lys Phe Tyr Phe His Leu Met Leu Leu Ala Gly Cys
    610   615   620

Ile Lys Tyr Gly Arg Gly Glu Asn Ile Tyr Asp Ala Phe Val Ile Tyr
625   630   635   640

Ser Ser Gln Asp Glu Asp Trp Val Arg Asn Glu Leu Val Lys Asn Leu
                645   650   655

Glu Glu Gly Val Pro Pro Phe Gln Leu Cys Leu His Tyr Arg Asp Phe
                660   665   670

Ile Pro Gly Val Ala Ile Ala Ala Asn Ile Ile His Glu Gly Phe His
        675   680   685

Lys Ser Arg Lys Val Ile Val Val Val Ser Gln His Phe Ile Gln Ser
    690   695   700

Arg Trp Cys Ile Phe Glu Tyr Glu Ile Ala Gln Thr Trp Gln Phe Leu
705   710   715   720

Ser Ser Arg Ala Gly Ile Ile Phe Ile Val Leu Gln Lys Val Glu Lys
                725   730   735

Thr Leu Leu Arg Gln Gln Val Glu Leu Tyr Arg Leu Leu Ser Arg Asn
            740   745   750

Thr Tyr Leu Glu Trp Glu Asp Ser Val Leu Gly Arg His Ile Phe Trp
        755   760   765

Arg Arg Leu Arg Lys Ala Leu Leu Asp Gly Lys Ser Trp Asn Pro Glu
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10

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<213> Rattus norvegicus

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Pro Asn Ile Thr Tyr Gln Cys Met Asp Gln Asn Leu Ser Lys Ile Pro
            35                  40                  45

His Asp Ile Pro Tyr Ser Thr Lys Asn Leu Asp Leu Ser Phe Asn Pro
        50                  55                  60

Leu Lys Ile Leu Arg Ser Tyr Ser Phe Thr Asn Phe Ser Gln Leu Gln
65                  70                  75                  80

Trp Leu Asp Leu Ser Arg Cys Glu Ile Glu Thr Ile Glu Asp Lys Ala
                85                  90                  95

Trp His Gly Leu Asn Gln Leu Ser Thr Leu Val Leu Thr Gly Asn Pro
            100                 105                 110

Ile Lys Ser Phe Ser Pro Gly Ser Phe Ser Gly Leu Thr Asn Leu Glu
            115                 120                 125

Asn Leu Val Ala Val Glu Thr Lys Met Thr Ser Leu Glu Gly Phe His
        130                 135                 140

Ile Gly Gln Leu Ile Ser Leu Lys Lys Leu Asn Val Ala His Asn Leu
145                 150                 155                 160

Ile His Ser Phe Lys Leu Pro Glu Tyr Phe Ser Asn Leu Thr Asn Leu
            165                 170                 175

Glu His Val Asp Leu Ser Tyr Asn Tyr Ile Gln Thr Ile Ser Val Lys
            180                 185                 190

Asp Leu Gln Phe Leu Arg Glu Asn Pro Gln Val Asn Leu Ser Leu Asp
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Leu Ser Leu Asn Pro Ile Asp Ser Ile Gln Ala Gln Ala Phe Gln Gly
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11

Ile Arg Leu His Glu Leu Thr Leu Arg Ser Asn Phe Asn Ser Ser Asn
225   230   235   240

Val Leu Lys Met Cys Leu Gln Asn Met Thr Gly Leu His Val His Arg
            245   250   255

Leu Ile Leu Gly Glu Phe Lys Asn Glu Arg Asn Leu Glu Ser Phe Asp
        260   265   270

Arg Ser Val Met Glu Gly Leu Cys Asn Val Ser Ile Asp Glu Phe Arg
        275   280   285

Leu Thr Tyr Ile Asn His Phe Ser Asp Asp Ile Tyr Asn Leu Asn Cys
    290   295   300

Leu Ala Asn Ile Ser Ala Met Ser Phe Thr Gly Val His Ile Lys His
305   310   315   320

Ile Ala Asp Val Pro Arg His Phe Lys Trp Gln Ser Leu Ser Ile Ile
            325   330   335

Arg Cys His Leu Lys Pro Phe Pro Lys Leu Ser Leu Pro Phe Leu Lys
        340   345   350

Ser Trp Thr Leu Thr Thr Asn Arg Glu Asp Ile Ser Phe Gly Gln Leu
    355   360   365

Ala Leu Pro Ser Leu Arg Tyr Leu Asp Leu Ser Arg Asn Ala Met Ser
    370   375   380

Phe Arg Gly Cys Cys Ser Tyr Ser Asp Phe Gly Thr Asn Asn Leu Lys
385   390   395   400

Tyr Leu Asp Leu Ser Phe Asn Gly Val Ile Leu Met Ser Ala Asn Phe
            405   410   415

Met Gly Leu Glu Glu Leu Glu Tyr Leu Asp Phe Gln His Ser Thr Leu
        420   425   430

Lys Lys Val Thr Glu Phe Ser Val Phe Leu Ser Leu Glu Lys Leu Leu
        435   440   445

Tyr Leu Asp Ile Ser Tyr Thr Asn Thr Lys Ile Asp Phe Asp Gly Ile
    450   455   460

Phe Leu Gly Leu Ile Ser Leu Asn Thr Leu Lys Met Ala Gly Asn Ser
465   470   475   480

Phe Lys Asp Asn Thr Leu Ser Asn Val Phe Thr Asn Thr Thr Asn Leu
            485   490   495

Thr Phe Leu Asp Leu Ser Lys Cys Gln Leu Glu Gln Ile Ser Arg Gly
        500   505   510

Val Phe Asp Thr Leu Tyr Arg Leu Gln Leu Leu Asn Met Ser His Asn
        515   520   525

12

Asn Leu Leu Phe Leu Asp Pro Ser His Tyr Lys Gln Leu Tyr Ser Leu
    530   535   540

Arg Thr Leu Asp Cys Ser Phe Asn Arg Ile Glu Thr Ser Lys Gly Ile
545   550   555   560

Leu Gln His Phe Pro Lys Ser Leu Ala Val Phe Asn Leu Thr Asn Asn
            565   570   575

Ser Val Ala Cys Ile Cys Glu Tyr Gln Asn Phe Leu Gln Trp Val Lys
            580   585   590

Asp Gln Lys Met Phe Leu Val Asn Val Glu Gln Met Lys Cys Ala Ser
        595   600   605

Pro Ile Asp Met Lys Ala Ser Leu Val Leu Asp Phe Thr Asn Ser Thr
    610   615   620

Cys Tyr Ile Tyr Lys Thr Ile Ile Ser Val Ser Val Val Ser Val Leu
625   630   635   640

Val Val Ala Thr Val Ala Phe Leu Ile Tyr His Phe Tyr Phe His Leu
            645   650   655

Ile Leu Ile Ala Gly Cys Lys Lys Tyr Ser Arg Gly Glu Ser Ile Tyr
            660   665   670

Asp Ala Phe Val Ile Tyr Ser Ser Gln Asn Glu Asp Trp Val Arg Asn
            675   680   685

Glu Leu Val Lys Asn Leu Glu Glu Gly Val Pro Arg Phe Gln Leu Cys
    690   695   700

Leu His Tyr Arg Asp Phe Ile Pro Gly Val Ala Ile Ala Ala Asn Ile
705   710   715   720

Ile Gln Glu Gly Phe His Lys Ser Arg Lys Val Ile Val Val Val Ser
            725   730   735

Arg His Phe Ile Gln Ser Arg Trp Cys Ile Phe Glu Tyr Glu Ile Ala
            740   745   750

Gln Thr Trp Gln Phe Leu Ser Ser Arg Ser Gly Ile Ile Phe Ile Val
            755   760   765

Leu Glu Lys Val Glu Lys Ser Leu Leu Arg Gln Gln Val Glu Leu Tyr
    770   775   780

Arg Leu Leu Ser Arg Asn Thr Tyr Leu Glu Trp Glu Asp Asn Ala Leu
785   790   795   800

Gly Arg His Ile Phe Trp Arg Arg Leu Lys Lys Ala Leu Leu Asp Gly
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Lys Ala Leu Asn Pro Asp Glu Thr Ser Glu Glu Glu Gln Glu Ala Thr
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13

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32

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Val Pro Asn Ile Thr Tyr Gln Cys Met Glu Leu Asn Phe Tyr Lys Ile
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Pro Asp Asn Leu Pro Phe Ser Thr Lys Asn Leu Asp Leu Ser Phe Asn
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Pro Leu Arg His Leu Gly Ser Tyr Ser Phe Phe Ser Phe Pro Glu Leu
65           .       70                  75                  80

Gln Val Leu Asp Leu Ser Arg Cys Glu Ile Gln Thr Ile Glu Asp Gly
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Ala Tyr Gln Ser Leu Ser His Leu Ser Thr Leu Ile Leu Thr Gly Asn
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Pro Ile Gln Ser Leu Ala Leu Gly Ala Phe Ser Gly Leu Ser Ser Leu
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Gln Lys Leu Val Ala Val Glu Thr Asn Leu Ala Ser Leu Glu Asn Phe
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Thr Asp Leu Arg Val Leu His Gln Met Pro Leu Leu Asn Leu Ser Leu
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Asn Val Met Lys Thr Cys Ile Gln Gly Leu Ala Gly Leu Glu Val His
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Arg Leu Val Leu Gly Glu Phe Arg Asn Glu Gly Asn Leu Glu Lys Phe
            260                 265                 270     .

Asp Lys Ser Ala Leu Glu Gly Leu Cys Asn Leu Thr Ile Glu Glu Phe
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Arg Leu Ala Tyr Leu Asp Tyr Tyr Leu Asp Asp Ile Ile Asp Leu Phe
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49

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Glu Arg Val Lys Asp Phe Ser Tyr Asn Phe Gly Trp Gln His Leu Glu
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Leu Val Asn Cys Lys Phe Gly Gln Phe Pro Thr Leu Lys Leu Lys Ser
                340   345   350

Leu Lys Arg Leu Thr Phe Thr Ser Asn Lys Gly Gly Asn Ala Phe Ser
                355   360   365

Glu Val Asp Leu Pro Ser Leu Glu Phe Leu Asp Leu Ser Arg Asn Gly
    370   375   380

Leu Ser Phe Lys Gly Cys Cys Ser Gln Ser Asp Phe Gly Thr Thr Ser
385   390   395   400

Leu Lys Tyr Leu Asp Leu Ser Phe Asn Gly Val Ile Thr Met Ser Ser
                405   410   415

Asn Phe Leu Gly Leu Glu Gln Leu Glu His Leu Asp Phe Gln His Ser
                420   425   430

Asn Leu Lys Gln Met Ser Glu Phe Ser Val Phe Leu Ser Leu Arg Asn
                435   440   445

Leu Ile Tyr Leu Asp Ile Ser His Thr His Thr Arg Val Ala Phe Asn
    450   455   460

Gly Ile Phe Asn Gly Leu Ser Ser Leu Glu Val Leu Lys Met Ala Gly
465   470   475   480

Asn Ser Phe Gln Glu Asn Phe Leu Pro Asp Ile Phe Thr Glu Leu Arg
                485   490   495

Asn Leu Thr Phe Leu Asp Leu Ser Gln Cys Gln Leu Glu Gln Leu Ser
                500   505   510

Pro Thr Ala Phe Asn Ser Leu Ser Ser Leu Gln Val Leu Asn Met Ser
    515   520   525

His Asn Asn Phe Phe Ser Leu Asp Thr Phe Pro Tyr Lys Cys Leu Asn
    530   535   540

Ser Leu Gln Val Leu Asp Tyr Ser Leu Asn His Ile Met Thr Ser Lys
545   550   555   560

Lys Gln Glu Leu Gln His Phe Pro Ser Ser Leu Ala Phe Leu Asn Leu
                565   570   575

Thr Gln Asn Asp Phe Ala Cys Thr Cys Glu His Gln Ser Phe Leu Gln
                580   585   590

Trp Ile Lys Asp Gln Arg Gln Leu Leu Val Glu Val Glu Arg Met Glu
                595   600   605

50

Cys Ala Thr Pro Ser Asp Lys Gln Gly Met Pro Val Leu Ser Leu Asn
    610   615   620

Ile Thr Cys Gln Met Asn Lys Thr Ile Ile Gly Val Ser Val Leu Ser
625   630   635   640

Val Leu Val Val Ser Val Val Ala Val Leu Val Tyr Lys Phe Tyr Phe
                645   650   655

His Leu Met Leu Leu Ala Gly Cys Ile Lys Tyr Gly Arg Gly Glu Asn
            660   665   670

Ile Tyr Asp Ala Phe Val Ile Tyr Ser Ser Gln Asp Glu Asp Trp Val
        675   680   685

Arg Asn Glu Leu Val Lys Asn Leu Glu Glu Gly Val Pro Pro Phe Gln
    690   695   700

Leu Cys Leu His Tyr Arg Asp Phe Ile Pro Gly Val Ala Ile Ala Ala
705   710   715   720

Asn Ile Ile His Glu Gly Phe His Lys Ser Arg Lys Val Ile Val Val
                725   730   735

Val Ser Gln His Phe Ile Gln Ser Arg Trp Cys Ile Phe Glu Tyr Glu
            740   745   750

Ile Ala Gln Thr Trp Gln Phe Leu Ser Ser Arg Ala Gly Ile Ile Phe
            755   760   765

Ile Val Leu Gln Lys Val Glu Lys Thr Leu Leu Arg Gln Gln Val Glu
    770   775   780

Leu Tyr Arg Leu Leu Ser Arg Asn Thr Tyr Leu Glu Trp Glu Asp Ser
785   790   795   800

Val Leu Gly Arg His Ile Phe Trp Arg Arg Leu Arg Lys Ala Leu Leu
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Trp Gln Glu Ala Thr Ser Ile
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Pro Asn Ile Thr Tyr Gln Cys Met Asp Gln Lys Leu Ser Lys Val Pro
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Asp Asp Ile Pro Ser Ser Thr Lys Asn Ile Asp Leu Ser Phe Asn Pro
        50   55   60

Leu Lys Ile Leu Lys Ser Tyr Ser Phe Ser Asn Phe Ser Glu Leu Gln
    65   70   75   80

Trp Leu Asp Leu Ser Arg Cys Glu Ile Glu Thr Ile Glu Asp Lys Ala
                85   90   95

Trp His Gly Leu His His Leu Ser Asn Leu Ile Leu Thr Gly Asn Pro
            100   105   110

Ile Gln Ser Phe Ser Pro Gly Ser Phe Ser Gly Leu Thr Ser Leu Glu
        115   120   125

Asn Leu Val Ala Val Glu Thr Lys Leu Ala Ser Leu Glu Ser Phe Pro
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Ile Gly Gln Leu Ile Thr Leu Lys Lys Leu Asn Val Ala His Asn Phe
145   150   155   160

Ile His Ser Cys Lys Leu Pro Ala Tyr Phe Ser Asn Leu Thr Asn Leu
            165   170   175

Val His Val Asp Leu Ser Tyr Asn Tyr Ile Gln Thr Ile Thr Val Asn
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Asp Leu Gln Phe Leu Arg Glu Asn Pro Gln Val Asn Leu Ser Leu Asp
        195   200   205

Met Ser Leu Asn Pro Ile Asp Phe Ile Gln Asp Gln Ala Phe Gln Gly
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Ile Lys Leu His Glu Leu Thr Leu Arg Gly Asn Phe Asn Ser Ser Asn
225   230   235   240

Ile Met Lys Thr Cys Leu Gln Asn Leu Ala Gly Leu His Val His Arg
            245   250   255

Leu Ile Leu Gly Glu Phe Lys Asp Glu Arg Asn Leu Glu Ile Phe Glu
            260   265   270

Pro Ser Ile Met Glu Gly Leu Cys Asp Val Thr Ile Asp Glu Phe Arg
    275   280   285

Leu Thr Tyr Thr Asn Asp Phe Ser Asp Asp Ile Val Lys Phe His Cys
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52

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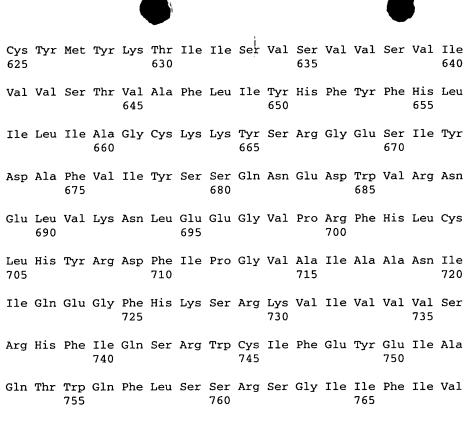Leu Glu Asp Val Pro Lys His Phe Lys Trp Gln Ser Leu Ser Ile Ile
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Ser Leu Thr Leu Thr Met Asn Lys Gly Ser Ile Ser Phe Lys Lys Val
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Ala Leu Pro Ser Leu Ser Tyr Leu Asp Leu Ser Arg Asn Ala Leu Ser
    370             375             380

Phe Ser Gly Cys Cys Ser Tyr Ser Asp Leu Gly Thr Asn Ser Leu Arg
385             390             395             400

His Leu Asp Leu Ser Phe Asn Gly Ala Ile Ile Met Ser Ala Asn Phe
            405             410             415

Met Gly Leu Glu Glu Leu Gln His Leu Asp Phe Gln His Ser Thr Leu
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Lys Arg Val Thr Glu Phe Ser Ala Phe Leu Ser Leu Glu Lys Leu Leu
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Tyr Leu Asp Ile Ser Tyr Thr Asn Thr Lys Ile Asp Phe Asp Gly Ile
    450             455             460

Phe Leu Gly Leu Thr Ser Leu Asn Thr Leu Lys Met Ala Gly Asn Ser
465             470             475             480

Phe Lys Asp Asn Thr Leu Ser Asn Val Phe Ala Asn Thr Thr Asn Leu
            485             490             495

Thr Phe Leu Asp Leu Ser Lys Cys Gln Leu Glu Gln Ile Ser Trp Gly
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Val Phe Asp Thr Leu His Arg Leu Gln Leu Leu Asn Met Ser His Asn
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Asn Leu Leu Phe Leu Asp Ser Ser His Tyr Asn Gln Leu Tyr Ser Leu
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Ser Thr Leu Asp Cys Ser Phe Asn Arg Ile Glu Thr Ser Lys Gly Ile
545             550             555             560

Leu Gln His Phe Pro Lys Ser Leu Ala Phe Phe Asn Leu Thr Asn Asn
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Ser Val Ala Cys Ile Cys Glu His Gln Lys Phe Leu Gln Trp Val Lys
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Glu Gln Lys Gln Phe Leu Val Asn Val Glu Gln Met Thr Cys Ala Thr
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Pro Val Glu Met Asn Thr Ser Leu Val Leu Asp Phe Asn Asn Ser Thr
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Cys Tyr Met Tyr Lys Thr Ile Ile Ser Val Ser Val Val Ser Val Ile
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Val Val Ser Thr Val Ala Phe Leu Ile Tyr His Phe Tyr Phe His Leu
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Ile Leu Ile Ala Gly Cys Lys Lys Tyr Ser Arg Gly Glu Ser Ile Tyr
            660             665             670

Asp Ala Phe Val Ile Tyr Ser Ser Gln Asn Glu Asp Trp Val Arg Asn
            675             680             685

Glu Leu Val Lys Asn Leu Glu Glu Gly Val Pro Arg Phe His Leu Cys
    690             695             700

Leu His Tyr Arg Asp Phe Ile Pro Gly Val Ala Ile Ala Ala Asn Ile
705             710             715                 720

Ile Gln Glu Gly Phe His Lys Ser Arg Lys Val Ile Val Val Val Ser
            725             730             735

Arg His Phe Ile Gln Ser Arg Trp Cys Ile Phe Glu Tyr Glu Ile Ala
            740             745             750

Gln Thr Trp Gln Phe Leu Ser Ser Arg Ser Gly Ile Ile Phe Ile Val
    755             760             765

Leu Glu Lys Val Glu Lys Ser Leu Leu Arg Gln Gln Val Glu Leu Tyr
    770             775             780

Arg Leu Leu Ser Arg Asn Thr Tyr Leu Glu Trp Glu Asp Asn Pro Leu
785             790             795                 800

Gly Arg His Ile Phe Trp Arg Arg Leu Lys Asn Ala Leu Leu Asp Gly
            805             810             815

Lys Ala Ser Asn Pro Glu Gln Thr Ala Glu Glu Glu Gln Glu Thr Ala
            820             825             830

Thr Trp Thr
            835
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54